Please add the following new claims 37-60.

- 37. (New) The metallic catalytic particle of claim 1 further comprising an additional Group VIII metal.
- 38. (New) The metallic catalytic particle of claim 1 further comprising an additional Group VIb metal.
- 39. (New) The metallic catalytic particle of claim 1 wherein the support material is selected from the group consisting of silica, MCM-41, alumina, MgO, ZrO₂, aluminum-stabilized magnesium oxide, and molecular sieve zeolites.
- 40. (New) The metallic catalytic particle of claim 1 comprising from about 1% to about 20% by weight of Co and Mo.

- 41. (New) A metallic catalytic particle for selectively producing single-walled carbon nanotubes, comprising: at least one of Ru, Rh, Pd, Ir, Pt, at least one Group VIb metal, and a support material, combined to have a particulate form.
- 42. (New) The metallic catalytic particle of claim 41 wherein the at least one Group VIb metal is selected from the group consisting of Cr, Mo and W.
- 43. (New) The metallic catalytic particle of claim 41 comprising Ru.
- 44. (New) The metallic catalytic particle of claim 41 comprising Rh.
- 45. (New) The metallic catalytic particle of claim 41 comprising Pd.
- 46. (New) The metallic catalytic particle of claim 41 comprising Ir.
- 47. (New) The metallic catalytic particle of claim 41 comprising Pt.

- 48. (New) The metallic catalytic particle of claim 41 wherein the support material selected from the group consisting of material of silica, MCM-41, alumina, MgO, ZrO₂, aluminum-stabilized magnesium oxide, and molecular sieve zeolites.
- 49. (New) The metallic catalytic particle of claim 41 comprising from about 1% to about 20% by weight of the at least one Ru, Rh, Pd, Ir and Pt and the at least one Group VIb metal.

- 50. (New) A metallic catalytic particle for selectively producing single-walled carbon nanotubes comprising: at least one Group VIII metal, excluding Fe, at least one of Cr, Mo and W, and a support material, and wherein the Group VIII metal, the at least one of Cr, Mo and W, and the support material are combined to have a particulate form, excluding a metallic catalytic particle consisting of the support material and Co and W or Co and Mo.
- 51. (New) The metallic catalytic particle of claim 50 wherein the at least one Group VIII metal is selected from the group consisting of Co, Ni, Ru, Rh, Pd, Ir and Pt.
- 52. (New) The metallic catalytic particle of claim 50 comprising Cr.
- 53. (New) The metallic catalytic particle of claim 50 comprising W.
- 54. (New) The metallic catalytic particle of claim 50 comprising Mo.

- 55. (New) The metallic catalytic particle of claim 50 wherein the support material selected from the group consisting of material of silica, MCM-41, alumina, MgO, ZrO₂, aluminum-stabilized magnesium oxide, and molecular sieve zeolites.
- 56. (New) The metallic catalytic particle of claim 50 comprising from about 1% to about 20% by weight of the at least one Group VIII metal and the at least one of Cr, Mo and W.

- 57. (New) A metallic catalytic particle for selectively producing single-walled carbon nanotubes, comprising:
 Co and Mo in a ratio of one part Co to at least two or more parts of Mo, and a silica support material, wherein the Co, Mo and silica support material are combined to have a particulate form.
- 58. (New) The metallic catalytic particle of claim 57 further comprising an additional Group VIII metal.
- 59. (New) The metallic catalytic particle of claim 57 further comprising an additional Group VIb metal.
- 60. (New) The metallic catalytic particle of claim 57 comprising from about 1% to about 20% by weight of Co and Mo.